



PATENT ABSTRACTS OF JAPAN

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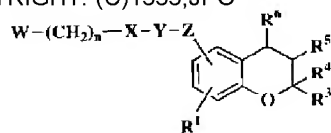
C07D311/70**A61K 31/35****A61K 31/38****A61K 31/40****A61K 31/44****A61K 31/505****C07D405/12****C07D405/12****C07D405/12****C07D405/12****C07D407/12****C07D409/12****C07D493/04**(21) Application number: **10011825**(22) Date of filing: **23.01.98**(71) Applicant: **NISSAN CHEM IND LTD**(72) Inventor: **TANIGAWA KEIZO
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YAMASHITA TORU**(54) **CHROMANE DERIVATIVE AND MEDICINE FOR
TREATING CARDIAC INSUFFICIENCY**

(57) Abstract:

PROBLEM TO BE SOLVED: To obtain the subject new compound useful as a cardiac insufficiency- treating agent.

SOLUTION: This compound is expressed by formula I [R¹ is H, a 1-6C alkyl or the like; R³ and R⁴ are each H, a 1-6C alkyl or the like; R⁵ and R⁶ together form a bond or an epoxy group; (n) is 0-4; X is C=O or the like; Y is NR⁹ (R⁹ is phenyl or the like) or the like; Z is CH₂ or the like; W is a group of formula II or the like], for example, 6-(benzoylamino)-2,2-dimethyl-7-nitro-2H-1-benzopyrane. A compound of formula III which is one of the compound of formula I (X is C=O; Y is NH; Z is a bond) is obtained, for example, by reacting a compound of formula IV with an acid chloride of formula V in the presence of a base or reacting a compound of formula IV with a carboxylic acid in the presence of a condensing agent.

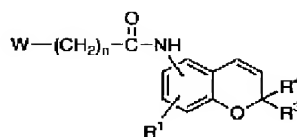
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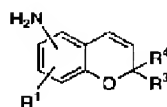
I



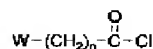
II



III



IV



V